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 January 2006 Oral History interviews
 Publisher: ACM

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Charles W. Bachman reviews his career. Born during 1924 in Kansas, B
 East Lansing, Michigan before joining the Army Anti Aircraft Artillery Co
 years in the Southwest Pacific Theater, during ...

 2 [Queue: Volume 6 Issue 3](#)

 May 2008 Queue
 Publisher: ACM

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Bibliometrics: Downloads (6 Weeks): 110, Downloads (12 Months): 432, Citi

 3 [MIDDLE-R: Consistent database replication at the middleware level](#)
[Marta Patiño-Martínez, Ricardo Jiménez-Peris, Bettina Kemme, Gustavo Alc](#)
 November 2005 Transactions on Computer Systems (TOCS) , Volume 23 I
 Publisher: ACM

 Full text available: Pdf (1.81 MB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 143, Citi

The widespread use of clusters and Web farms has increased the import
 article, we show how to implement consistent and scalable data replicat
 do this by combining transactional concurrency ...

Keywords: Database replication, eager data replication, middleware, s

 4 ["Yes, but does it scale?": practical considerations for database-drive](#)
[John Russell](#)
 October 2001 SI GDOC '01: Proceedings of the 19th annual international co
 documentation
 Publisher: ACM

 Full text available: Pdf (231.31 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

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This paper explores the process of designing and implementing a database, its documentation, and putting it live on the web for customers to use. Usi discusses practical considerations for balancing performance, ...

Keywords: Oracle, automation, categorization, database, performance services


5 [Extending DBMSs with satellite databases](#)

[Christian Plattner](#), [Gustavo Alonso](#), [M. Tamer Özsu](#)

July 2008 The VLDB Journal — The International Journal on Very Large Databases

4

Publisher: Springer-Verlag New York, Inc.


Full text available:  [Pdf](#) (681.33 KB) Additional Information: [full citation](#), [abstract](#), [bibliography](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 36, Citation



In this paper, we propose an extensible architecture for database engine used to scale out and implement additional functionality for a centralized architecture uses a middleware layer that offers consistent ...

Keywords: Dynamic satellite creation, Extending database functionality, isolation

6 [Communications of the ACM: Volume 51 Issue 12](#)


 December 2008 Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#),  [Pdf](#) (6.91 MB) Additional Information: [full citation](#), [abstract](#), [bibliography](#)


Bibliometrics: Downloads (6 Weeks): 9162, Downloads (12 Months): 9162, Citation

7 [Model-driven development of Web applications: the AutoWeb system](#)

 [Piero Fraternali](#), [Paolo Paolini](#)

October 2000 Transactions on Information Systems (TOIS), Volume 18 Issue 4

Publisher: ACM


Full text available:  [Pdf](#) (6.94 MB) Additional Information: [full citation](#), [abstract](#), [bibliography](#)

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 442, Citation

This paper describes a methodology for the development of WWW applications specifically tailored for the methodology. The methodology and the development upon models and techniques already used in the hypermedia, ...


Keywords: HTML, WWW, application, development, intranet, modeling

8 [Continuous program optimization: A case study](#)

 [Thomas Kistler](#), [Michael Franz](#)

July 2003 Transactions on Programming Languages and Systems (TOPLAS)

Publisher: ACM


Full text available:  [Pdf](#) (877.67 KB) Additional Information: [full citation](#), [abstract](#), [bibliography](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 168, Citation


Much of the software in everyday operation is not making optimal use of what it actually runs. Among the reasons for this discrepancy are hardware/software modularization overheads introduced by software engineering considerations.

Keywords: Dynamic code generation, continuous program optimization

9 Recovery guarantees for Internet applications

 Roger Barga, David Lomet, German Shegalov, Gerhard Weikum

August 2004 Transactions on Internet Technology (TOIT) , Volume 4 Issue 1
Publisher: ACM

Full text available:  Pdf (997.52 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 204, Citations: 1

Internet-based e-services require application developers to deal explicitly with software components, for example web servers, servlets, browser sessions, etc. This complicates application programming, and may expose ...

Keywords: Exactly-once execution, application recovery, communication contracts

10 Adaptive quality of service management for enterprise services

 Daniel Gmach, Stefan Krompass, Andreas Scholz, Martin Wimmer, Alfons Kersch

February 2008 Transactions on the Web (TWEB) , Volume 2 Issue 1

Publisher: ACM

Full text available:  Pdf (2.31 MB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 65, Downloads (12 Months): 442, Citations: 1

In the past, enterprise resource planning systems were designed as monoliths running on centralized mainframes. Today, these systems are (re-)designed as enterprise services that are distributed throughout the available ...


Keywords: Quality of service, fuzzy controller, workload characterization

11 Ganymed: scalable replication for transactional web applications

[Christian Plattner](#), [Gustavo Alonso](#)

October 2004 Middleware '04: Proceedings of the 5th ACM/IFIP/USENIX International Middleware Conference
Middleware


Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (295.27 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)


Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 81, Citations: 1

Data grids, large scale web applications generating dynamic content and other applications pose significant scalability challenges to database engines. Replication is one approach, but it involves difficult trade-offs. The most difficult ...

12 Online detection of malicious data access using DBMS auditing

 José Fonseca, Marco Vieira, Henrique Madeira

March 2008

SAC '08: Proceedings of the 2008 ACM symposium on Applied
 Publisher: ACM
 Full text available:  Pdf (196.78 KB) Additional Information: [full citation](#), [abstract](#), [bibliography](#)
 Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 258, Citations: 0

This paper proposes a mechanism that allows concurrent detection of m
 online analysis of the Database Management Systems (DBMS) audit tra
 a directed graph representing the profile of valid ...




Keywords: DBMS auditing, SQL injection, intrusion detection

13 [A call to arms](#)



 [Jim Gray, Mark Compton](#)
 April 2005 Queue , Volume 3 Issue 3
 Publisher: ACM
 Full text available:  Html (37.02 KB),  Pdf (448.02 KB) Additional Information: [full citation](#), [abstract](#), [bibliography](#)
 Bibliometrics: Downloads (6 Weeks): 211, Downloads (12 Months): 327, Citations: 0

Long anticipated, the arrival of radically restructured database architect
 We live in a time of extreme change, much of it precipitated by an aval
 otherwise threatens to swallow us whole. ...

14 [Communications of the ACM: Volume 51 Issue 7](#)



 July 2008 Communications of the ACM
 Publisher: ACM
 Full text available:  Digital Edition ,  Pdf (6.54 MB) Additional Information: [full citation](#), [abstract](#), [bibliography](#)
 Bibliometrics: Downloads (6 Weeks): 4302, Downloads (12 Months): 8264, Citations: 0

15 [Online recovery in cluster databases](#)

 [WeiBin Liang, Bettina Kemme](#)
 March 2008 EDBT '08: Proceedings of the 11th international conference on
 Advances in database technology
 Publisher: ACM
 Full text available:  Pdf (237.85 KB) Additional Information: [full citation](#), [abstract](#), [bibliography](#)
 Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 146, Citations: 0

Cluster based replication solutions are an attractive mechanism to provi
 scalability for the database backend within the multi-tier information sy:
 businesses. An important issue that has not yet received ...

16 [The next database revolution](#)

 [Jim Gray](#)
 June 2004 SIGMOD '04: Proceedings of the 2004 ACM SIGMOD internati
 of data
 Publisher: ACM
 Full text available:  Pdf (61.29 KB) Additional Information: [full citation](#), [abstract](#), [bibliography](#)
 Bibliometrics: Downloads (6 Weeks): 50, Downloads (12 Months): 306, Citations: 0

Database system architectures are undergoing revolutionary changes. N


data are being unified by integrating programming languages with the c
extensible object-relational system where non-procedural ...

17 [Fast detection of communication patterns in distributed executions](#)

[Thomas Kunz](#), [Michiel E. H. Seuren](#)

November 1997 CASCON '97: Proceedings of the 1997 conference of the C
Collaborative research

Publisher: IBM Press

Full text available:  Pdf (4.21 MB)

Additional Information: [full citation](#), [abstract](#), [...](#)

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 461, Citation (

Understanding distributed applications is a tedious and difficult task. Vis
time diagrams are often used to obtain a better understanding of the ex
visualization tool we use is Poet, an event ...

18 [The forest and the trees: using oracle and SQL server together to tea](#)

 [Gary B. Randolph](#)

October 2003 CI TC4 '03: Proceedings of the 4th conference on Information

Publisher: ACM

Full text available:  Pdf (149.07 KB)


Additional Information: [full citation](#), [abstract](#), [...](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 28, Citation (

Students in a sophomore-level database fundamentals course were taug
using both Oracle and SQL Server. Previous offerings of the class had u
Classroom experiences suggest that students were able ...

Keywords: SQL, database, teaching in IT, training vs. education

19 [A model of OASIS role-based access control and its support for activ](#)

 [Jean Bacon](#), [Ken Moody](#), [Walt Yao](#)

November 2002 Transactions on Information and System Security (TI

Publisher: ACM

Full text available:  Pdf (352.06 KB)


Additional Information: [full citation](#), [abstract](#), [...](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 280, Citation (

OASIS is a role-based access control architecture for achieving secure ir
open, distributed environment. The aim of OASIS is to allow autonomou
specify their own access control policies and to interoperate ...

Keywords: Certificates, OASIS, RBAC, distributed systems, policy, role
level agreements

20 [Hyperform: a hypermedia system development environment](#)

 [Diffe K. Will](#), [John J. Leggett](#)

January 1997 Transactions on Information Systems (TOIS) , Volume 15 I

Publisher: ACM

Full text available:  Pdf (362.84 KB)

Additional Information: [full citation](#), [abstract](#), [...](#)

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Development of hypermedia systems is a complex matter. The current t
and distributed multiuser hypermedia systems adds additional complexi
As a means of reducing this complexity, there has been ...

Keyw ords: advanced hypermedia system architecture, extensible hype
object-oriented extension language

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